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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
			1	
10/775,568	02/10/2004	Norbert Miller	SWR-0130	1477
23413 7590 10/31/25088 CANTOR COLBURN, LLP 20 Church Street 22nd Floor			EXAMINER	
			SHAPIRO, JEFFERY A	
Hartford, CT (6103		ART UNIT	PAPER NUMBER
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			NOTIFICATION DATE	DELIVERY MODE
			10/31/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptopatentmail@cantorcolburn.com

Application No. Applicant(s) 10/775,568 MILLER ET AL. Office Action Summary Examiner Art Unit JEFFREY A. SHAPIRO 3653 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 16 July 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4-6.8.9 and 11-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,2,4-6,8,9 and 11-24 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 10 February 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/18/07 has been entered.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the structure through which coins are passed from the "coin insertion slot" (13) to the "rollers" (2a, 2b) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abevance.

Specification

- 3. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are as follows.
- 4. For example, in paragraph 6, there is mention in line 17 of an "opposite" roller to the two rollers. The specification should be checked for completeness with regards to elements and their structural relationships to each other that are required to practice the invention as well as the clarity and thoroughness of explanation. As an illustrative example, note that paragraph 6 describes that the coins can be brought to the rollers by either slanted plane (1), funnel (3) or slot (13).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 1, 2, 4-6, 9, 11, 12 and 19-24 are rejected under 35 U.S.C. 103(a) as obvious over Shirasawa (US 5,355,988) in view of Wingate-Hill et al (US 5,111,860).

Regarding Claims 1, 9, 12, 20 and 23, Shirasawa discloses providing at least one pair of rollers (35-38 and 47), which separate coins into a singulated flow regardless of their value (see figure 4), said rollers rotating in the same rotational direction, as illustrated in figures 4-8, said rollers rotating in the same direction, i.e., counter-clockwise, to be further processed by a coin processing device (55, 56). The conveyor (30) conveys coins to the rollers (47 and 35) which rotate in the same direction. This separates the coins, which are then transported by conveyor (31) away from said pair of rollers to be further processed by processing device (55, 56), i.e., a sensor as referred to in Claim 19.

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Regarding the spacing between Shirasawa's rollers, note col. 1, lines 58-66, which states that the spacing "D" is greater than the thickness "T" of the coin, said spacing also being less than twice the thickness "T".

Regarding Claim 2, Shirasawa discloses belt (45) that connects both rollers (35 and 47) to a drive mechanism (41 and 42), thereby rotating them at the same rotational speed. See Shirasawa, figures 2 and 5.

Regarding **Claim 4**, Shirasawa discloses rotating the rollers in response to the coin supply through means of microcomputer (43), signal generators (70, 71) and buttons 9-12. See col. 4, line 55-col. 5, line 40.

Regarding Claim 5, Shirasawa discloses a collection container (17) where processed coins are stored.

Regarding Claim 6, Shirasawa discloses conveying the coins in series from the pair of rollers to processing device (55, 56).

Regarding Claims 9, 11 and 21, further note sloped surfaces (31) as well as sloped surfaces (14a,15a and 61).

Further regarding Claim 9, note that per MPEP 2115, the "material or article worked upon does not limit apparatus claims". As such, the limitations regarding the thickness of the smallest and largest coins, i.e., the articles being worked on, do not hold patentable weight and are not being considered with respect to Claim 9.

Regarding Claim 22, note that Shirasawa discloses a cover (8a) that is removable and located in an area of the means of transportation.

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At the time of the invention, it would have been obvious to one of ordinary skill in the art to have maintained a space between the rollers that is larger than the thickness of a thickest coin, but less than the thickness of the smallest coin handled by the machine. Note that it is a matter of design choice as to what coins are handled by Shirasawa's machine, based on the requirements of the gaming machine payouts. As an example, if the thickest coin handled was a US quarter, and the smallest was a US dime, then the spacing would necessarily be greater than the quarter's thickness, but smaller than twice the dime's thickness.

In the alternative, if the machine only accepts one type of coin, such as a quarter, then the thickest and smallest thicknesses will be equal. Thus, in such a case, Applicants' claimed spacing formula would be anticipated by Shirasawa.

Therefore, because it is a matter of design choice as to what the smallest coin handled by the sorter is, or, in the alternative, because Shirasawa discloses that the smallest and largest coin are of equal thicknesses Applicant's claims are considered to read on Shirasawa's claimed spacing formula.

Regarding Claims 1 and 9 and the limitation that the rollers rotate in the same direction at different speeds, Shirasawa does not expressly disclose, but Wingate-Hill discloses rotating rollers in the same direction at different speeds for the purpose of allowing various sized logs to be debarked, as mentioned at col. 2, lines 37-43.

Regarding Claim 24, Wingate Hill discloses rollers that have various surfaces and diameters, as illustrated at figure 3. Note also that Shirasawa discloses roller (47)

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with diameter larger than other rollers (57), as illustrated at figures 3-6 and grooves (48a, b).

At the time of the invention, it would have been obvious to one of ordinary skill in the art to have rotated the rollers of Shirasawa in the same direction but at different speeds, as taught by Wingate-Hill, since one ordinarily skilled in the art would have recognized from Wingate's teaching that rotating rollers in the same direction but at different speeds will grip and separate items due to the difference in frictional forces and momentum imparted by faster rollers versus slower rollers. Note that varying diameters also impart higher or lower centrifugal forces and that differing roller surfaces can increase or decrease friction accordingly, as is required.

 Claims 8, 13 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shirasawa (US 5,355,988) in view of Wingate-Hill et al (US 5,111,860), and further in view of Bruner et al (US 5,988,349).

Shirasawa discloses the apparatus described above.

Regarding Claims 7 and 13, Shirasawa does not expressly disclose, but Bruner discloses a bypass return chute placed before a "further processing device" for the purpose of removing coins of incorrect diameter. See Bruner, col. 5, lines 15-25.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to have included a return chute placed before the coin processor/sensor for the purpose of removing coins of improper diameter, thus allowing the size of the "rejector" to be reduced. See again, Bruner, col. 5, lines 15-25.

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Regarding Claims 8 and 18, it would have been obvious to one of ordinary skill to have removed the coins of improper diameter before the rollers because one ordinarily skilled would have recognized that such coin races and return chutes as taught by Bruner requires coins to be discriminated by gravity developed by dropping the coins in a vertical direction rather than in a horizontal direction. Once the coins of improper diameter have been removed, the coins of proper diameter drop onto the horizontally displaced coin conveyors to transport them to said rollers and the further coin processor.

 Claims 14, 16, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shirasawa (US 5,355,988) in view of Wingate-Hill et al (US 5,111,860), and further in view of Masse (US 5,713,451).

Shirasawa discloses the coin handling device described above.

Regarding Claims 14, 16 and 17, Shirasawa does not expressly disclose, but Masse discloses a coin slot (2) for the insertion of a single coin (A), having a slot closure plate (32), that is selectively closed by solenoid (28). See figures 3 and 4 of Masse.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to have incorporated the coin slot and closure plate in Masse.

The suggestion/motivation to do so would have been to secure the coin system by prevent foreign matter from entering the coin apparatus.

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Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Shirasawa (US 5,355,988) in view of Wingate-Hill et al (US 5,111,860), further in view of
 Masse (US 5,713,451) and still further in view of Jones et al (US 2003/0127299 A1).

Shirasawa discloses the coin apparatus described previously.

Regarding Claim 15, Shirasawa does not expressly disclose, but Jones discloses a coin input area (14) that is generally funnel-shaped. See figure 1 and paragraph 17.

At the time of the invention, it would have been obvious to one of ordinary skill in the art to have made Shirasawa's coin input area funnel-shaped, for the purpose of directing the coin to a processing area. See paragraph 17, lines 1-4.

Response to Arguments

- 11. Applicant's arguments with respect to Claims 1, 2, 4-6, 8, 9 and 11-24 have been considered but are moot in view of the new ground(s) of rejection.
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to JEFFREY A. SHAPIRO whose telephone number is
 (571)272-6943. The examiner can normally be reached on Monday-Friday, 9:00 AM5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick H. Mackey can be reached on (571)272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jeffrey A. Shapiro/ Primary Examiner, Art Unit 3653

October 27, 2008